SRIVATSA KULKARNI
Date of Birth: 29-12-1988
Contact no: (+91)8308478384

Email ID: srivatssa.kulkarni@gmail.com
Address: 3-4-160, AKSHAYA, Lingampally
Kachiguda, Hyderabad -500027, A.P

Examination	University	Institute	Year	CPI / %
Post Graduation (Materials Science)	IIT Bombay, Mumbai	IIT Bombay	2012	9.23
Under Graduation (Metallurgy and Materials Technology)	JNTU Hyderabad, A.P.	Mahatma Gandhi Institute of Technology	2010	82.10
Intermediate/+2	Board of Intermediate Education, A.P.	Narayana Junior College	2006	91.70
Matriculation	Board of Secondary Education, A.P.	All Saints' High School	2004	84.83

OBJECTIVE

A challenging position in the esteem organization, where my knowledge and skills will be utilized fully for attaining the goals of the organization.

CURRENT POSITION

- **Senior Engineer in Process Engineering at Tata Power SED , Bengaluru (Jan 2017 till date)**
- Part of DFM team looking into material related manufacturing (casting, forging, heat treatment, welding) also material selection for various defence projects.
- Part of vendor assessment team and also developing new vendor related to manufacturing jobs (casting ,heat treatment, forging, steel mills, fabrication etc) for various defence projects
- **Deputy Manager in Quality Assurance / R & D at Kalyani Carpenter Special Steels ltd, Pune (2012 - 2016)**
  - Designing of steel alloys like low alloy steels, tool steels, microalloyed steels, austenitic and martensitic stainless steel, boron steels, case carburizing steels, bainitic steels, bearing steels etc for various applications
  - Heat treatment of various low alloy, tool and die steel and martensitic stainless steels
  - Heat treatment simulation analysis for studying distortions, quench cracks and residual stress patterns .

KEY PROJECTS HANDLED

- **TATA POWER SED**
- Developed casting for defence project: first time right casting of EN 19 for gear applications from puring to heat treatment.
- Developed new grade 15CDV6 as per the drawing requirement for defence project .
- Welding related inputs and issue during welding for various similar and dissimilar grades of steel, stainless steel and non ferrous.
- **KALYANI CARPENTER SPECIAL STEELS PVT. LTD**
  - Product development of martensitic stainless steels used for powergen like X20Cr13, X22CrMoV12-1, X10CrNiMoV11-1, X19CrMoVNbN11-1, F91, X12Cr13, AISI 410, AISI420, 17-4PH, 15-5 PH. Quench and temper bainitic grades

- Heat treatment of large blocks and shafts made of tool steels, low alloy steels and stainless steels and various automotive, strategic , oil and gas component.
- Achieving FATT for martensitic stainless steels through robust heat treatment.
- Using FEM simulation software FORGE predicted the root cause of quench cracks in big rotors and shafts and also analysis of the distortions in complex shape components
- Failure analysis related to hydrogen flake and UT rejections in hydrogen flake prone grades in large components and forgings Ni-Cr-Mo/V steels are high prone to Hydrogen flaking **and** Forging and post forging cycles given without any UT rejections

PATENTS FILED

- Development of a Controlled Sequence Quench Process [CSQP] for minimising distortion, avoiding quench cracks and improving mechanical properties during hardening of carbon and alloy steels **(Patent Filing no:** TEMP/E-1/38640/2015-MUM)

- Retard Quenching process for enhancing mechanical properties and minimizing the distortion in the core of the complex shaped components **(Patent Filing no:** 1433/MUM/2015)

PAPERS PUBLISHED/ PRESENTED

- Improvement of Impact toughness by modified hot working and heat treatment in 13%Cr Martensitic Stainless Steel, Material Science and Engg A., (2016)
- Room Temperature Microstructure and Property Evaluation of a Heat Treated Fully Bainitic 20CrMoVTiB410 Steel, Journal of Minerals, Metals and Material Society, (2016)
- Improvement in mechanical properties of 13Cr Martensitic Stainless Steels using modified heat treatment - 28th ASM Heat treat conference 2015, Detroit, Michigan USA. (Published in conference proceeding)
- Behavior of a complex steel part during hardening heat treatment - 28th ASM Heat treat conference 2015, Detroit, Michigan USA. (Published in conference proceeding)
- Structure – Property evaluation of heat treated 20CrMoVTi410 for high temperature bolting applications – NMD ATM 2014 , IIM
- Study on hardenability of AISI 9260H and its Influence of microstructure - NMD ATM 2014, IIM
- Microstructure and Mechanical property of heat treated AISI 5160-- NMD ATM 2014, IIM
- Study on microstructural characterization of 21-4N engine valves- NMD ATM 2014, IIM

TRAINING UNDERTAKEN

- ISO 17025 and Internal Audit conducted by Fine Finish training school – Mumbai in 2015
- Green belt Six Sigma program conducted by ANNEXAS- Pune in 2013
- Training in simulation software like Solid works, Forge and Thercast – Kalyani Carpenter Special Steels Ltd - 2012

SCHOLASTIC/ ACADEMIC ACHIEVEMENTS

Internal Auditor: Certified internal auditor course conducted by fine finish training school -2015

Green Belt: Certified Green belt in Six Sigma by ANNEXAS -2014

GATE : Secured All India rank 118 in Metallurgy and Material science

Gold Medalist: University Gold Medalist in B.Tech (Metallurgy and Materials Technology), out of all JNTUH affiliated colleges and also Recipient of Sri CherukuriVeeraraghavendra Rao Gold Medal in I year B.Tech, instituted by MGIT Alumni Association

DAAD WISE Program*:* Recipient of DAAD scholarship **,** Germany (*May-June2009)*

INSTRUMENT SKILLS

- OM, SEM, TEM, UTM, XRD,EBSD, Hardness machine, Impact machine
- FEM simulation software forge, minitab & SAP end user
- User interface of PLM software

OTHER ACCOMPLISHMENTS

- Invited by Indian Institute of Metals (IIM), Pune chapter to deliver a lecture in a workshop on advances in forging technology. The topic delivered was **Raw material quality for forging industry**
- Invited as Guest lecturer by Department of Mechanical Engineering, Sinhagad College of Engineering, PUNE and delivered a lecture on **Biomemetics - Technology imitates Nature**
- Participated in course "**Quality Management System**" conducted by Kalyani Centre for Technology innovation (KCTI)

I the undersign, would ensure that the information furnished is true to the best of my ability

Date: 02-09-2018 Srivatsa Kulkarni
Place: Bengaluru, India